

DERWENT-ACC-NO: 1993-284644

DERWENT-WEEK: 200022

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TITLE: Biodegradable seedling-growing pot - has cylindrical or rectangular body of specified dimensions and is made of biodegradable aliphatic polyester

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PRIORITY-DATA: 1991JP-0270507 (September 24, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3029352 B2	April 4, 2000	N/A	007	A01G 009/10
JP 05199818 A	August 10, 1993	N/A	007	A01G 009/10

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 3029352B2	N/A	1992JP-0269108	September 14, 1992
JP 3029352B2	Previous Publ.	JP 5199818	N/A
JP 05199818A	N/A	1992JP-0269108	September 14, 1992

INT-CL_(IPC): A01G009/02; A01G009/10 ; C08G063/91

ABSTRACTED-PUB-NO: JP 05199818A

BASIC-ABSTRACT: Pot has a cylindrical or rectangular body with 70-200 microns

film thickness, 3-10 cm dia., 3-10 cm side length and 3-15 cm height and is made of one or a mixt. of biodegradable aliphatic polyesters and their modified prods.. The modified prods. are pref. polymers obtd. by modifying the polyesters with up to 10 wt.% of diisocyanates. The material pref. contains a disinfectant(s) and more pre. activated charcoal and/or carbon black.

Polyesters include poly 3-hydroxybutyric acid, 3-hydroxybutyric acid, 3-hydroxyvaleric copolymer, poly 3-hydroxyalkanoic acids, polylactic acid, polyglycolic acid, polypropiolactone, polybutyrolactone, polycaprolactone and polyesters prep'd. by polycondensing aliphatic dibasic acids with aliphatic diols, such as those consisting of succinic, adipic, sebacic and decane-dicarboxylic acids and ethylene glycol, propylene glycol, 1,4-butanediol, 1,6-hexanediol and 1,10-decanediol. Diisocyanates for the modification include 1,4-diisocyanatobutane, 1,6-diisocyanatohexane, 1,12-diisocyanatododecane and 4,4'-diisocyanatodiphenylmethane. The modification is usually effected by heat melting at room temp. to 200 deg. C, opt. in the presence of a solvent(s) without active hydrogen, such as benzene,

1,2-dichlorethane, THF or DMSO.

USE/ADVANTAGE - The pot retains the strength from seeding to transplantation, allows transplantation of seedling with their pots and it biodegraded at an accurately controlled pace, without adverse effects upon rooting, after transplantation. It grows transplanted seedlings well. It thus improves efficiency to work and reduces the damage of seedlings on planting.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

**BIODEGRADABLE SEEDLING GROW POT CYLINDER RECTANGLE BODY
SPECIFIED DIMENSION
MADE BIODEGRADABLE ALIPHATIC POLYESTER**

DERWENT-CLASS: A23 A92 P13

CPI-CODES: A05-E02; A09-A; A12-W04A;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0274U; 0811U ; 0895U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; G1343*R G1310 D01 D60 F37 F35 E00 ; R00900 G1343 G1310 D01 D11 D10 D50 D60 D84 F37 F35 E00 E11 ; R01060 G1343 G1310 D01 D11 D10 D50 D60 D86 F37 F35 E00 E13 ; R00924 G1343 G1310 D01 D11 D10 D50 D60 D90 F37 F35 E00 E17 ; G1025*R G0997 D01 F28 F26 ; R00822 G1025 G0997 D01 D11 D10 D50 D82 F28 F26 ; R00137 G1025 G0997 D01 D11 D10 D50 D83 F28 F26 ; R00908 G1036 G1025 G0997 D01 D11 D10 D50 D84 F28 F26 ; R01422 G1047 G1025 G0997 D01 D11 D10 D50 D86 F28 F26 ; G1069 G1025 G0997 D01 F28 F26 D11 D10 D90 ; M9999 M2824 ; L9999 L2391 ; L9999 L2824 ; H0011*R ; H0033 H0011

Polymer Index [1.2]

017 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; R00448 G2108 D01 D11 D10 D50 D60 D82 F27 F26 F36 F35 ; R00644 G2131 D01 D23 D22 D31 D42 D50 D84 F43 ; R01295 G2131 D01 D23 D22 D31 D42 D50 D86 F43 ; P0839*R F41 ; L9999 L2391 ; M9999 M2824 ; L9999 L2824 ; H0000

Polymer Index [1.3]

017 ; G2142 G2131 D01 F43 D23 D22 D31 D42 D50 D83 ; P0839*R F41 ; L9999 L2824 ; M9999 M2824 ; L9999 L2391 ; H0000

Polymer Index [1.4]

017 ; G2120 G2108 D01 D60 F35 D11 D10 D84 ; P0839*R F41 ; M9999 M2824 ; L9999 L2391 ; L9999 L2824 ; H0000

Polymer Index [1.5]